green-yellow

Vitis riparia
"Taylor Bullit grape"
my garden

Octb 28 1874

424

berries 11–13 m.m. diam. greenish yellow, brownish tinge

2–3 seeds, in smallest berries only 1 seed

0 1 2 3 4 5 6 7 8 9 10
cm
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HENRY EHRHARDT,

PHARMACEUTICAL CHEMIST,

No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

Date 187

No. Rx

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

green-yellow

Urtica

Taylor?

Oct. 6 21 1874

Adolph Engelmann coll.

425

Seeds, 11–12 m.m. Diam.

yellowish green – brown

Tint

pairing, several

seeds 2, rarely 1 or 3

terminal 3–4 sided by

compression, cylindrical

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Bronner Mss in a Library in Carlsruhe says: "Long's von Arkansas, die einzige der Amerikanisch Reben, welche eine dunkelrothe Saft hat." "Long's" is preserved in the coll of Bronner's son in Wisloch and is identical with V. Solonis. fide Oberlin in Ampelographische Berichte May 1881

H. Goethe (16) had formerly considered Solonis = Zanis, and Arkansas = Caucasus! but now retracts.

H Goethe (in Ampelog. Berichte May 1881 Chemitzsch Ges Isenach Pub 1868.

Vitis Solonis came to Berlin from Cologne 1849 and was probably brought to Cologne from Angers 1840 fide Ampelog. Berichte March 1882 22

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Vitis riparia Michx is the only species in [lower] Canada and goes further north than any other species. Its northern limits is Lake St Jean, 90 miles north of Quebec. V. cordifolia has never been seen in Canada as far as I know.

Prof. A. Brunet in letter of 29 Feb 1868.

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ANDER & CO.,

ACEUTISTS,

ut, under Southern Hotel,

ut, under Barnum's Hotel,

LOUIS, MO.

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Vitis praecox n sp ?

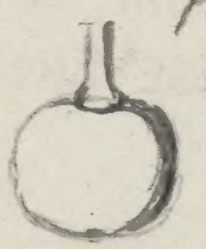
July 28th 1865

in St Louis Market July 25th

no
Merrimac ?
"Sand grape" of
Missourians

very very black
with a very pale blue blush
and deep red purple
juicy pulp

berries a little
flattened.



berries mostly
8–8½ m m
diameter

Largest berries
9 m m in diameter
8 m m high

pedicelle 4 m m long
most berries 8–8½ m m diam

one of 4 seeds 5 m m long
×4

428

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ALEX. LEITCH.

APOTHECARY & PHARMACEUTIST.

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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Editorial Department.

REVIEWS AND BIBLIOGRAPHICAL NOTICES.

PAGET'S SURGICAL PATHOLOGY.

[Continued.]

Mr. Paget embraces in his theory the doctrine of complemental nutrition, first taught by C. F. Wolff, illustrating the subject as follows:

"A great change in nutrition rarely takes place in a single organ at a time; for example, the growth of the beard at the period of puberty in man, the growth and perfection of the plumage of the bird at breeding time; but as in man, when the development of the genital organs is prevented, that of the beard and all other external sexual characters is, as a consequence, hindered, so in birds, when the breeding season ends, and the sexual organs pass gradually into their periodic atrophy, at once the plumage begins to assume the pale and more sober colors, which characterizes the barrenness of winter." He next refers to certain interesting specimens presented to the museum by Sir Philip Egerton, showing the interesting fact, "that if a buck be castrated while his antlers are still covered with velt, their growth is checked, they remain as if truncated, and irregular nodules of bone project from their surfaces." "The fact is not, hitherto, explained; it is inexplicable, by believing that the materials which, in the formation of these organs of external sexual character, are removed from the blood, leave or maintain the blood in the state necessary for the further development, growth and active function of the proper sexual or reproductive organs." "The concurrent development of the thymus gland and air breathing organs during the body's growth of the thyroid gland and the brain, (instances

428-A

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MISSOURI ... SYSTEM
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2.—*Monthly Mean of Temperature, Fahrenheit.*

JANUARY.

YEAR.	6 A. M.	9 A. M.	12 M.	3 P. M.	6 P. M.	9 P. M	MEAN OF MONTH.
1861	26.9	29.5	35.3	37.4	33.5	30.8	32.2
1862	27.1	27.3	30.1	30.7	29.5	28.5	28.9
1863	31.9	34.0	39.4	41.2	38.3	36.1	36.8
1864	22.6	25.2	32.6	35.1	31.5	28.0	29.2
1865	21.9	24.2	31.5	33.1	30.2	27.9	28.1
1866	27.0	29.1	34.8	36.8	33.8	31.5	32.2
Mean	26.2	28.2	33.9	35.7	32.8	30.5	31.2

FEBRUARY.

1861	34.2	35.4	43.7	46.7	42.8	39.7	40.4
1862	23.9	27.0	33.6	35.9	31.9	29.2	30.2
1863	31.3	33.7	38.7	39.4	36 6	34.4	35.7
1864	30.4	34.4	42.2	45.5	40.9	36.4	38.3
1865	33.4	36.1	41.7	43.3	39.4	36.8	38.4
1866	27.3	30.0	37.0	38.7	35.2	32.5	33.4
Mean	30.1	32.8	39.5	41.6	37.8	34.8	36.1

3.—*Monthly Mean of Relative Humidity.*

JANUARY.

YEAR	6 A. M.	9 A. M.	12 M.	3 P. M.	6 P. M.	9 P. M.	MEAN OF MONTH.
1861	.....	.....	.....	.....	.....	.....	72.2
1862	91.5	87.5	78.5	79.0	85.2	90.0	85.3
1863	94.1	83.9	75.0	71.9	79.3	86.0	81.7
1864	90.8	79.3	65.9	62.7	75.4	79.8	75.6
1865	89.3	77.5	64.3	62.8	73.7	79 9	74.6
1866	87.1	77.1	67.2	65.3	74.6	79.1	75.1
Mean	90.6	81.1	70.2	68.3	77.6	82.9	77.4

FEBRUARY.

1861	.....	.....	.....	.....	.....	.....	63.3
1862	89.1	79.2	65.8	61.5	72.2	75.5	73.9
1863	94.1	83.9	75.0	71.9	79.3	86.0	81.7
1864	79.0	65.0	53.5	49.0	59.9	70.0	62.7
1865	86.2	73.8	63.7	60.8	70.8	76.7	72.0
1866	85.3	70.8	62.9	59.5	68.6	76.5	70.6
Mean	86.8	74.5	64.2	60.5	70.2	76.9	70.7

Errata. In the last No. of *Journal*, on page 70, line 6, for the word "*destination*" read *declination*.

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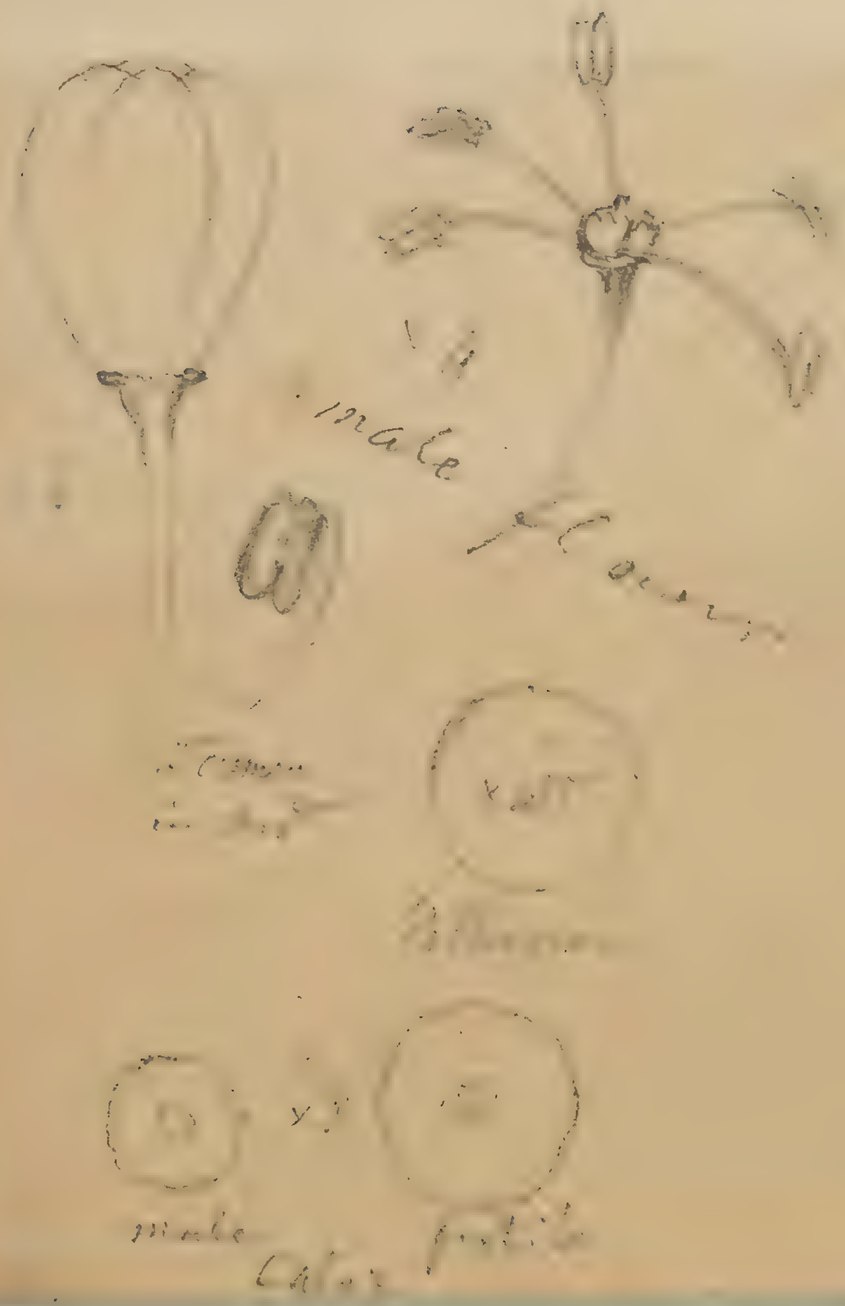

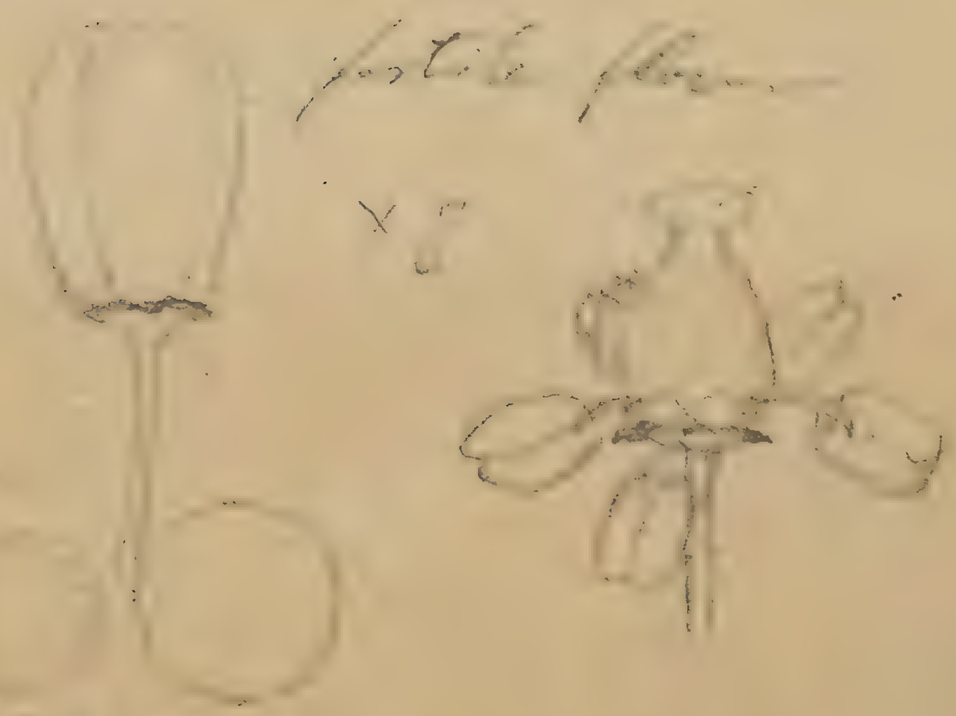

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Taylor Grape in my yard May 24 1872

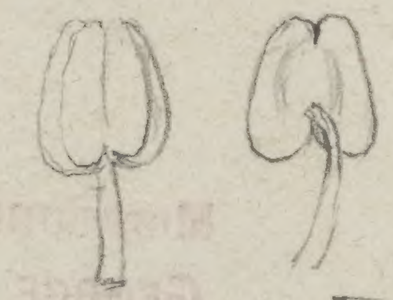
almost past flowering — together with Catawba, Hartford dwarf & the Labrusca

× 10

bud just opening

same after removal of corolla

× 10



inner outer side of stamen

= bud

Dillon × 415

$\frac{11}{415}$ = mm

open flower with effet recurved stamen & circinate filament

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Leitch & Carlies

DRUGGISTS

South-west Corner Fifth and Market Streets

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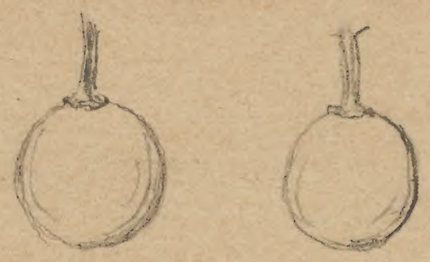
Black

Vitis Riparia

Oct 6 21 1874

Canon of the Arkansas Sept 1874



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Berries mostly 3 and 4

seeded 8-10 mm diam

juice dark red, sweet.

(withering — decomposing?)

Leaves compact 3 rarely 4 lobed

berries 8-10 mm diam

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

HENRY EHRHARDT,
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No. Date 187

Dr.

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